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FORM PTO-1449 (Rev. 2-32)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No.	Serial No.
		04-082-F (400/249US)	10/597,755
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		Applicant: Jadhav et al.	
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U.S. PATENT APPLICATION DOCUMENTS

Examiner Initial		Document Number	Filing Date	Name	Class	Subclass	Publication Date if Appropriate
	*	US-2002/0086356	03/30/01	Tuschl et al.			07/04/02
	*	US-2002/0151693	02/08/01	Breaker et al.			10/17/02
	*	US-2003/0059944	09/13/02	Lois-Caballe et al.			03/27/03
	*	US-2003/0064945	07/25/01	Akhtar et al.			04/03/03
	*	US-2003/0143732	08/30/02	Fosnaugh et al.			07/31/03
	*	US-2003/0190635	07/25/02	McSwiggen et al.			10/09/03
	*	US-2003/0206887	09/16/02	Morrissey et al.			10/09/03
	*	US-2004/0019001	07/26/02	McSwiggen et al.			01/29/04
	*	US-2004/0161844	11/04/03	Baker et al.			08/19/04
	*	US-2005/0020521	09/25/05	Rana, Tariq M.			01/27/05
	*	US-2005/0182005	05/13/04	Tuschl et al.			02/18/05
	*	US-2005/0227256	11/26/04	Hutvagner et al.			10/13/05

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	*	5,587,471	12/24/96	Cook et al.			

EXAMINER	DATE CONSIDERED

								Officet 2 of 1
FORM PTO-1449 U.S. Department of Commerce (Rev. 2-32) Patent and Trademark Office SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT				04-082-F (400/249US		Serial 10/597		
(Use several sheets if necessary)			Applicant: Jadhav et al.					
					Filing Date	:	Group	:
					August 7, 2	006	1645	
	*	5,814,620	09/29/98	Robinson et al.				
	*	5,898,031	04/27/99	Crooke, Stanley T.				
	*	5,998,148	12/07/99	Bennett et al.				
	*	5,998,203	12/07/99	Matulic-Adamic et al.				
	*	5,998,206	12/07/99	Cowsert				
	*	6,060,456	05/09/00	Arnold et al.				
	*	6,107,094	08/22/00	Crook, Stanley T.				
	*	6,214,805	04/10/01	Torrence et al.				
	*	6,346,398	02/12/02	Pavco et al.				
	*	6,506,559	01/14/03	Fire et al.				
	*	6,573,099	06/03/03	Graham et al.				
	*	6,824,972	11/30/04	Kenwrick et al.				
	*	7,022,828	04/04/06	McSwiggen et al.				
	*	7,078,196	07/18/06	Tuschl et al.				

EXAMINER	DATE CONSIDERED

FORM PTO-1449 (Rev. 2-32)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No.	Serial No.
		04-082-F (400/249US)	10/597,755
	INFORMATION DISCLOSURE ENT BY APPLICANT		
(Use sever	ral sheets if necessary)		
		Applicant: Jadhav et al.	
100		Filing Date:	Group:
		August 7 2006	1645

FOREIGN PATENT DOCUMENTS

	Document Number	Date Co	Country	Class	Subclas	Translation	
						Yes	No
1.	2001240375 (Old Application No. 40375/01)	03/16/01	AU (Graham et al.)				
2.	2,359,180	08/03/00	CA (Kreutzer et al.)				
3.	1325955	01/04/02	EP (Klippel-Gese et al.)				
8.	1389637	08/05/02	EP (Klippel et al.)				
5.	1144623 B1	01/29/02	EP (Kreutzer et al.)				
6.	08208687	08/13/96	JP (Hotoda et al.) ABSTRACT ONLY				
7.	90/14090	11/29/90	WO (Gillespie et al.)				
8.	94/01550	01/20/94	WO (Agrawal et al.)				
9.	95/04142	02/09/95	WO (Robinson)				
10.	99/04819	02/04/99	WO (Klimuk)				
11.	99/07409	02/18/99	WO (Deschamps de Paillette et al.)				
12.	99/14226	03/25/99	WO (Wengel et al.)				
13.	99/32619	07/01/99	WO (Fire et al.)				

EXAMINER	DATE CONSIDERED

					Sneet 4 of	1			
		U.S. Department of Commerce Patent and Trademark Office ORMATION DISCLOSURE FBY APPLICANT		Atty. Docket No. 04-082-F (400/249US)	Serial No. 10/597,755				
	(Ose several si	ieets ii riecess	aiy)	Applicant: Jadhav et al.					
				Filing Date:	Group:				
				August 7, 2006	1645				
	99/49029	09/30/99	WO (Graham et al.)			_			
14.			, ,			_			
15.	99/53050	10/21/99	WO (Waterhouse et al.)			_			
16.	99/55857	11/04/99	WO (Beigelman et al.)			_			
17.	99/61631	12/02/99	WO (Heifetz et al.)			_			
18.	00/01846	01/13/00	WO (Plaetinck et al.)			_			
19.	00/21560	04/20/00	WO (Alitalo et al.)						
20.	00/44895	08/03/00	WO (Kreutzer et al.)						
21.	00/44914	08/03/00	WO (Li et al.)						
22.	00/49035	08/24/00	WO (Sheen)						
23.	00/63364	10/26/00	WO (Pachuk et al.)						
24.	01/04313	01/18/01	WO (Satishchandran et al.)						
25.	01/29058	04/26/01	WO (Mello et al.)			_			
26.	01/36646	05/25/01	WO (Zernicka-Goetz et al.)			_			
27.	01/38551	05/31/01	WO (Grossniklaus)			_			
28.	01/42443	06/14/01	WO (Churikov et al.)			_			
29.	01/49844	07/12/01	WO (Driscoll et al.)			_			
30.	01/53475	07/26/01	WO (Cogoni et al.)			_			
31.	01/68836	09/20/01	WO (Beach et al.)			_			
32.	01/70944	09/27/01	WO (Honer et al.)			_			
33.	01/70949	09/27/01	WO (Graham et al.)			_			

EXAMINER	DATE CONSIDERED

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		U.S. Department of Commerce Patent and Trademark Office CORMATION DISCLOSURE T BY APPLICANT		Atty. Docket No. 04-082-F (400/249US)	Serial No. 10/597,755				
	(Ose severar	sneets ii necess	ary)	Applicant: Jadhav et al.					
				Filing Date: August 7, 2006	Group:				
				August 7, 2000	1043				
34.	01/72774	10/04/01	WO (Deak et al.)			_			
35.	01/75164	10/11/01	WO (Tuschl et al.)			_			
36.	01/92513	12/06/01	WO (Arndt et al.)			_			
37.	01/96584	12/20/01	WO (Mushegian et al.)						
38.	01/97850	12/27/01	WO (Siemeister et al.)						
39.	02/07747	01/31/02	WO (King)						
40.	02/10378	02/07/02	WO (Cowsert et al.)						
41.	02/22636	03/21/02	WO (Bennett et al.)						
42.	02/38805	05/16/02	WO (Echeverri et al.)						
43.	02/44321	06/06/02	WO (Tuschl et al.)						
44.	02/055692	01/09/02	WO (Kreutzer et al.)						
45.	02/055693	01/09/02	WO (Kreutzer et al.)						
46.	02/096927	12/05/02	WO (Escobedo et al.)						
47.	03/044188	11/21/02	WO (Tei et al.)						
48.	03/064625	08/07/03	WO (Woolf et al.)						
49.	03/064626	08/07/03	WO (Woolf et al.)						
50.	03/068797	08/21/03	WO (Rossi et al.)						
51.	03/070887	08/28/03	WO (McSwiggen et al.)						
52.	03/070896	08/28/03	WO (McSwiggen et al.)						
53.	03/070910	08/28/03	WO (McSwiggen et al.)						

EXAMINER	DATE CONSIDERED

Serial No.

(Rev. 2-32) Patent and Trademark Office SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)			04-082-F (400/249US) 10/597,755			55			
	(GGC SOCIAL GROUD II RECESSARY)					Applicant: Jadhav et al.			
					Filing Date:		Group : 1645		
	J.,	/074654 CT/US03/05028)	09/12/03	WO (McSwiggen et al.)					
	55. 03	/080638	10/02/03	WO (LaCasse et al.)					
	56. 04	/029212	04/08/04	WO (Rana, Tariq M.)					
	57. 04	/043977	05/27/04	WO (Prakush et al.)					
	58. 04	/048566	11/21/03	WO (Saigo et al.)					
	59. 04	/072261	08/26/04	WO (Li et al.)					
	30. 04	/090105	10/21/04	WO (Leake et al.)					
	61. 05	/049821	11/18/04	WO (Naito et al.)					
		OTHER DOCUM	ENTS (Inclu	iding Author, Title, Date, Pe	rtinent Pages	, Etc).			
62				nd Biochemistry of 2', Chemistry, 8, 1189-1212		nylate-B	ased Ar	tisense	
63	in s	Alexeev et al., "Localized in vivo genotypic and phentypic correction of the albino mutation in skin by RNA-DNA oligonucleotide," <i>Nature Biotechnology</i> , 18:43-47 (2000)							
64	Coll	Bahramian et al., "Transcriptional and Posttranscriptional Silencing of Rodent α1(Collagen by a Homologous Transcriptionally Self-Silenced Transgene," <i>Molecular an Cellular Biology</i> , 274-283 (1999)							
65	(200	Bass, "Double-Stranded RNA as a Template for Gene Silencing," Cell, 101, 235-238 (2000)				235-238			
66	•	•		ture 411:428-429 (2001)					
67				ility and antiviral activity or. J. Biochem., 142(29):2			eryl deriv	atives	
68	Beig	Beigelman et al., "Chemical Modification of Hammerhead Ribozymes," <u>The Journal o</u> <u>Biological Chemistry</u> 270:25702-25708 (1995)				urnal of			

U.S. Department of Commerce Atty. Docket No.

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

DATE CONSIDERED

EXAMINER

FORM PTO-1449

FORM PTO-1449 (Rev. 2-32)	9	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No.	Serial No.
			04-082-F (400/249US)	10/597,755
:	SUPPLEMENTAL INFORMATI STATEMENT BY APP		(100/21000)	
	(Use several sheets if n	ecessary)		
			Applicant: Jadhav et al.	
			Filing Date:	Group:
			August 7, 2006	1645
69.	nuclease resistance, bas	o-β-D-ribonucleotides: synthe e pairing properties, and inter cids Research, 21(7):1587-15	action with HIV-1 re	

03.	Belloff et al., 4-1110-oligo-p-D-hoofideleotides, synthesis of p-4-tiflo-oligourlaylates,			
	nuclease resistance, base pairing properties, and interaction with HIV-1 reverse			
	transcriptase," Nucleic Acids Research, 21(7):1587-1593 (1993)			
70.	Bernstein et al., "Role for a Bidentate Ribonuclease in the Initiation Step of RNA			
	Interference," Nature 409:363-366 (2001)			
71.	Bernstein et al., "The rest is silence," RNA, 7:1509-1521 (2001)			
72.	Bitko et al., "Phenotypic silencing of cytoplasmic genes using sequence-specific double-			
	stranded short interfering RNA and its application in the reverse genetics of wild type			
	negative-strand RNA viruses," BMC Microbiology, 1:34 (11 pgs) (2001)			
73.	Braasch et al., "Novel Antisense and Peptide Nucleic Acid Strategies for Controlling Gene			
	Expression," Biochemistry, 31:14, 4503-4510 (2002)			
74.	Braasch et al., "RNA Inteference in Mammalian Cells by Chemically-Modified RNA,"			
	Biochemistry, 42, 7967-7975 (2003)			
75.	Caplen, Natasha J., "RNAi as a gene therapy approach," Expert Opin. Biol. Ther.,			
	3(4):575-586 (2003)			
76.	Chiu et al., "siRNA function in RNAi: A chemical modification analysis," RNA, 9:1034-1048			
	(2003)			
77.	Claverie, Jean-Michel, "Fewer Genes, More Noncoding RNA," Science, 309, 1529-1530			
	(2005)			
78.	Clemens et al., "The Double-Stranded RNA-Dependent Protein Kinase PKR: Structure			
	and Function," Journal of Interferon and Cytokine Research, 17:503-524 (1997)			
79.	Czech, Michael P., "MicroRNAs as Therapeutic Targets," The New England Journal of			
	Medicine, 354, 1194-1195 (2006)			
80.	Elbashir et al., "Analysis of gene function in somatic mammalian cells using small			
	interfering RNAs," <i>Methods</i> , 26:199-213 (2002)			
81.	Elbashir et al., "Duplexes of 21-nucleotide RNAs mediate RNA interference in cultured			
•	mammalian cells," Nature 411:494-498 (2001)			

EXAMINER	DATE CONSIDERED

FORM PTO-1449 (Rev. 2-32)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No.	Serial No.
(04-082-F (400/249US)	10/597,755
	RMATION DISCLOSURE BY APPLICANT		
(Use several sh	eets if necessary)		
		Applicant: Jadhav et al.	
		Filing Date:	Group:
		August 7, 2006	1645

Elbashir et al., "RNA Interference is Mediated by 21- and 22-Nucleotide RNAs," Genes and Development 15:188-200 (2001)				
Fire et al., "Potent and Specific Genetic Interference by Double-Stranded RNA in				
Caenorhabditis Elegans," Nature 391:806-811(1998)				
Fire, "RNA-triggered Gene Silencing," <u>TIG</u> 15:358-363(1999)				
Futami et al., "Induction of Apoptosis in HeLa Cells with siRNA Expression Vector				
Targeted Against bcl-2," Nucleic Acids Research Supplement 2:251-252 (2002)				
Hamasaki et al., "Short interfering RNA-directed inhibition of hepatitis B virus replication,"				
FEBS Letters, 543:51-54 (2003)				
Hamilton, et al., "A Species of Small Antisense RNA in Posttranscriptional Gene Silencing				
in Plants," <i>Science</i> , 286, 950-952 (1999))				
Hammond et al., "An RNA-Directed Nuclease Mediates Post-Transcriptional Gene				
Silencing in Drosophila Cells," Nature 404:293-296 (2000)				
Hammond et al., "Post-Transcriptional Gene Silencing by Double-Stranded RNA," Nature,				
2:110-119 (2001)				
Harborth et al., "Sequence, Chemical, and Structural Variation of Small Interfering RNAs				
and Short Hairpin RNAs and the Effect on Mammalian Gene Silencing," Antisense and				
Nucleic Acid Drug Development, 13:83-105 (2003)				
Hasan et al., "VEGF antagonists," Oncologic, Metabolic & Endocrine, 703-718 (2001)				
trigger Tissue Factor," <i>Nucleic Acids Research</i> , 30:8, 1757-1766 (2002)				
plasmacytoid dendritic cells through TLR7," Nature Medicine, 11, 263-270 (2005)				
Hutvagner et al., "A Cellular Function for the RNA-Interference Enzyme Dicer in the				
Maturation of the let-7 Small Temporal RNA," Science 293:834-838 (2001)				
Jen et al., "Suppression of gene Expression by Targeted Disruption of Messenger RNA:				
Available Options and Current Strategies," Stem Cells, 18:307-319 (2000)				

EXAMINER	DATE CONSIDERED

FORM PTO-1449 (Rev. 2-32)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No.	Serial No.
		04-082-F (400/249US)	10/597,755
SUPPLEMENTAL INFORMATI STATEMENT BY APP			
(Use several sheets if r	ecessary)		
		Applicant: Jadhav et al.	
		Filing Date:	Group:
		August 7, 2006	1645

96.	Judge et al., "Sequence-dependent stimulation of the mammalian innate immune response by synthetic siRNA," <i>Nature Biotechnology</i> , 23(4):457-462 (2005)
97.	Kawaski et al., "Uniformly Modified 2'-Modified 2'-Deoxy-2'-fluoro Phosphorothioate Oligonucleotides as Nuclease-Resistant Antisense Compounds with High Affinity and Specificity for RNA Targets," <i>J. Med. Chem.</i> , 36, 831-841 (1993)
98.	Kuwabara et al., "A C. elegans patched gene, ptc-1, functions in germ-line cytokinesis," Genes and Development, 14(15):1933-1944 (2000)
99.	Lin et al., "A Novel mRNA-cRNA Interference Phenomenon for Silencing bcl-2 Expression in Human LNCaP Cells," Biochemical and Biophysical Research Communications, 281, 639-644 (2001)
100.	Lin et al., "Policing rogue genes," Nature, 402, 128-129 (1999)
101.	Martinez et al., "Single-Stranded Antisense siRNAs Guide Target RNA Cleavage in RNAi," Cell 110:563-574 (2002)
102.	Mattick, John S., "The Functional Genomics of Noncoding RNA", Science, 309, 1527-1528 (2005)
103.	McCaffrey et al., "RNA interference in adult mice," Nature, 148, 38-39 (2002)
104.	Monia et al., "Evaluation of 2'-Modified Oligonucleotides Containing 2'-Deoxy Gaps as Antisense Inhibitors of Gene Expression," <u>J. Biol. Chem.</u> 268:14514-14522 (1993)
105.	Morvan et al., "Comparative Evaluation of Seven Oligonucleotide Analogues as Potential Antisense Agents," <i>J. Med. Chem.</i> , 36, 280-287 (1993)
106.	Olie et al., "Analysis of ribosyl-modified, mixed backbone analogs of a bcl-2/bcl-xL antisense oligonucleotide," <i>Biochimica et Biophysica Acta</i> , 1576, 101-109 (2002)
107.	Opalinska et al., "Nucleic-Acid Therapeutics: Basic Principles and Recent Applications," Nature Reviews Drug Discovery, (1):503-514 (2002)
108.	Parrish, "Functional Anatomy of a dsRNA Trigger: Differential Requirement for the Two Trigger Strands in RNA Interference." Molecular Cell 6:1077-1087 (2000)

EXAMINER	DATE CONSIDERED

FORM PTO-1449	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No.	Serial No.
(Rev. 2-32)	Patent and Trademark Office	04-082-F (400/249US)	10/597,755
	L INFORMATION DISCLOSURE MENT BY APPLICANT	(100,21002)	
(Use sev	reral sheets if necessary)		
		Applicant: Jadhav et al.	
		Filing Date:	Group:
		August 7, 2006	1645

10	Schmidt et al., "Base and sugar requirements for RNA cleavage of essential nucleoside residues in internal loop B of the hairpin ribozyme: implications for secondary structure," Nucleic Acids Research 24:573-581 (1996)
11	Sethupathy et al., "TarBase: A comprehensive database of experimentally supported animal microRNA targets," RNA, 12:192-197 (2006)
11	1. Sharp et al., "RNAi and double-strand RNA," Genes & Development, 13:139-141 (1999)
11	 Strauss, Evelyn, "Molecular Biology: Candidate 'Gene Silencers' Found," Molecular Biology, Vol. 286, No. 5441, p. 886 (1999) [sometimes mistakenly referred to as being published in Science]
11	Thomson et al., "Activity of hammerhead ribozymes containing non-nucleotidic linkers," Nucleic Acids Research 21:5600-5603 (1993) (MAY BE REFERRED TO AS THOMPSON)
11	4. Tuschl et al., "Small Interfering RNAs: A Revolutionary Tool for Analysis of Gene Function and Gene Therapy," Molecular Interventions, 295, 3, 158-167 (2002)
11	5. Tuschl et al., "Targeted mRNA Degradation by Double-Stranded RNA In Vitro," Genes & Development 13: 3191-3197 (1999)
11	6 Tuschl, "RNA Interference and Small Interfering RNAs," Chembiochem 2:239-245 (2001)
11	Vickers et al., "Efficient Reduction of Target RNAs by Small Interfering RNA and RNase H-dependent Antisense Agents," <i>Journal of Biological Chemistry</i> , 278, 7108-7118 (2003)
11	8. Waterhouse et al., "Virus resistance and gene silencing in plants can be induced by simultaneous expression of sense and antisense RNA," Proc. Natl. Acad. Sci. USA, 95, 13959-13964 (1998)
11	Wianny and Zernicka-Goetz et al., "Specific Interference with Gene Function by Double- Stranded RNA in Early Mouse Development," <u>Nature Cell Biology</u> 2:70-75 (2000)
12	Zamore et al., "RNAi: Double-Stranded RNA Directs the ATP-Dependent Cleavage of mRNA at 21 to 23 Nucleotide Intervals," Cell 101:25-33 (2000)

EXAMINER	DATE CONSIDERED

FORM PTO-1449 (Rev. 2-32)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No.	Serial No.
		04-082-F (400/249US)	10/597,755
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT			
(Use several sheets if necessary)			
		Applicant: Jadhav et al.	
		Filing Date:	Group:
		August 7, 2006	1645

12	. Zhang et al., "Single Processing Center Models for Human Dicer and Bacterial RNase III,"
	Cell, 118:57-68 (2004)

EXAMINER DATE CONSIDERED